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(54) LOG SPLITTER

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## (57)

## ABSTRACT

A portably $\log$ splitter is provided. The $\log$ splitter comprises a base having a pair of one-piece side members, and a support member to which the one-piece side members are attached. The support member and the one-piece side members form a seat that is adapted to receive a log. The $\log$ splitter also includes a splitting wedge that is attached to the support member and a contact member that is configured to translate in a reciprocal manner adjacent to the support member in order to move the log. The log splitter also includes a control assembly operated by a switch to actuate the contact member in the reciprocal manner.

15 Claims, 8 Drawing Sheets










## LOG SPLITTER

## FIELD OF THE INVENTION

This invention relates generally to a $\log$ splitter, and more specifically, to a portable $\log$ splitter.

## BACKGROUND

Conventional $\log$ splitting devices are used in order to reduce large logs into smaller logs that are more portable. It is common for these log splitting devices to employ hydraulic systems to move a wedge toward a log or to move the log toward a stationary wedge in order to split the log. These hydraulic systems are often bulky, thereby causing the device to be heavy and awkward when trying to move the log splitting device between locations. Typical devices that allow for the portability of a $\log$ splitter are connected directly to the structural framework, but the typical portability devices provide poor structural support system for $\log$ splitting devices.

Large logs are very heavy and are typically odd-shaped such that balancing a $\log$ on a conventional $\log$ splitting device is difficult. The support structure for these conventional $\log$ splitting devices does not provide sufficient support to allow for a heavy log having a variable shape to be adequately placed on the $\log$ splitting device in a stable manner without tipping the $\log$ splitting device or the $\log$ rolling off before being cut. The typical support structure that maintains the $\log$ in a desired position, or allows the $\log$ to translate, is generally not sufficient to support logs having a heavy weight.

It is therefore desirable to have a $\log$ splitting device that is easily portable between different locations and provides a stable foundation. It is further desirable to have an improved log splitting device that is able to support large logs on the log splitting device without tipping yet able to prevent the $\log$ from rolling off.

## BRIEF SUMMARY

The present invention solves one or more of the shortcomings above by providing a pair of one-piece side members that, in conjunction with a support member, form a seat adapted to receive a log. The embodiments described herein allow for a cost-effective log splitter being more stable than conventional $\log$ splitting devices. Such improvements greatly increase the safety and ease of portability for the $\log$ splitter.

In one aspect of the invention, a $\log$ splitter is provided. The $\log$ splitter includes a base having a pair of one-piece side members. The one-piece side members are attached to a support member that is located between the one-piece side members. The one-piece side members and the support member form a seat that is adapted to receive a $\log$. A splitting wedge is operably connected to the support member. A contact member is configured to translate in a reciprocal manner along the length of the support member in order to move the log. A control assembly, operated by a switch, is configured to actuate the contact member in the reciprocal manner.

In another aspect of the invention, a method for splitting a $\log$ is provided. The method includes providing a splitting wedge that is operably connected to a support member. A pair of one-piece side members are connected to the support member to form a base, and the support member and the one-piece side members form a seat that is adapted to
receive a log. The method further includes moving a contact member toward the splitting wedge in order to cut the log. Furthermore, the contact member is configured to move in a reciprocal manner adjacent to the support member.

Advantages of the present invention will become more apparent to those skilled in the art from the following description of the preferred embodiments of the invention which have been shown and described by way of illustration. As will be realized, the invention is capable of other and different embodiments, and its details are capable of modification in various respects.

Accordingly, the drawings and description are to be regarded as illustrative in nature and not as restrictive.

## BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a top perspective of one embodiment of a $\log$ splitter;

FIG. 2 is a right side view of the $\log$ splitter of FIG. 1;
FIG. 3 is a left side view of the log splitter of FIG. 1;
FIG. 4 is a front view of the $\log$ splitter of FIG. 1;
FIG. 5 is a rear view of the $\log$ splitter of FIG. 1;
FIG. 6 is a top view of the log splitter of FIG. 1;
FIG. 7 is a bottom view of the $\log$ splitter of FIG. 1;
FIG. 8 is a right side view of a second embodiment of the $\log$ splitter; and;

FIG. 9 is a right side view of a third embodiment of the log splitter.

## DETAILED DESCRIPTION OF THE DRAWINGS AND THE PRESENTLY PREFERRED EMBODIMENTS

Referring to FIGS. 1-2, one embodiment of a $\log$ splitter 10 of the present invention is shown. The log splitter 10 includes a handle 12, a splitting wedge $\mathbf{1 4}$, a support member 16, a base 18, a guide assembly 20 , a control assembly 22 , and a switch 24. Preferably, the handle 12 is located at the forward end $\mathbf{1 1}$ of the $\log$ splitter $\mathbf{1 0}$ and the switch $\mathbf{2 4}$ is located at the rearward end $\mathbf{1 3}$ of the $\log$ splitter $\mathbf{1 0}$ such that the switch 24 is disposed near the control assembly 22 . The handle $\mathbf{1 2}$ is preferably located at the end opposite the switch 24 and the control assembly 22 such that the log splitter 10 is more readily moveable by allowing the user to lift the lighter end of the $\log$ splitter 10.

In the preferred embodiment, the base 18 includes a first side member 26, a second side member 28, and a wheel $\mathbf{3 0}$ attached to each side member 26, 28, as illustrated in FIGS. 1-2. The side members 26,28 form a foundation for the $\log$ splitter 10 such that during the transport and operation, the $\log$ splitter 10 remains stable. The side members 26, 28 are located on opposing sides of the support member 16, and are oriented such that the side members 26, 28 are disposed adjacent to the side surfaces of the support member 16 that extends along the length of the $\log$ splitter 10 . The side members 26, 28 are preferably attached to the support member 16 by way of a plurality of bolts 32 . However, it should be understood by one skilled in the art that the side members 26, 28 can be connected to the support structure by any means including, but not limited to, welding, rivets, or any combination thereof.
In the preferred embodiment, each side member 26, 28 is preferably a one-piece member and made of a hollow tube forming a front leg 34, a rear leg 36, and a center section 38, as illustrated in FIG. 2. The center section $\mathbf{3 8}$ is configured to extend in a substantially parallel manner relative to the side surfaces of the support member 16, and the legs 34, 36
are configured to extend from the center section $\mathbf{3 8}$ at an angle thereto. In the preferred embodiment, each side member 26, 28 is formed from a single tube, but it should be understood by one skilled in the art that the front leg, rear leg, and center section can each be formed by individual members that are attached to form a single one-piece side member 26, 28. Furthermore, the tube forming the side members 26, 28 is preferably hollow, but it should be understood by one skilled in the art that a solid tube can also be used. The tubes of the side members $\mathbf{2 6}, 28$ are preferably made of steel, but any other material sufficient to withstand the loads applied to the $\log$ splitter can be used.

In an alternative, each side member 26, 28 can be a one-piece member forming a center section $\mathbf{3 8}$ and a rear leg 36, as illustrated in FIG. 8. The front leg 34 is attached directly to support member 16 without being attached to the one-piece side members 26, 28. In a further alternative embodiment, each side member 26, 28 can be a one-piece member forming a center section 38 and a front leg 34, as illustrated in FIG. 9. The rear leg 36 is attached directly to support member 16 without being attached to the one-piece side members 26, 28. It should be understood by one skilled in the art that each one-piece side member can include a center section 38 in combination with a front leg 34 and a rear leg 36, a center section 38 in combination with only a front leg 34, or a center section 38 in combination with only a rear leg 36. It should also be understood by one skilled in the art that a side member can include a different combination of legs with the center section than the opposing side member.

Both the front leg 34 and rear leg 36 of each of the side members 26, 28 extend downward from the center section 38 at an angle of between about fifteen and one hundred sixty five degrees ( $15-165^{\circ}$ ). The front leg 34 preferably extends from the center section 38 such that the included angle between the front leg 34 and the center section 38 is about one hundred twelve degrees $\left(112^{\circ}\right)$, and the rear leg 36 preferably extends from the center section 38 such that the included angle between the rear leg 36 and the center section 38 is about one hundred ten degrees $\left(110^{\circ}\right)$. The legs 34, 36 provide a base upon which the forward end $\mathbf{1 1}$ and rearward end $\mathbf{1 3}$ of the $\log$ splitter $\mathbf{1 0}$ contact the ground. The end $\mathbf{4 0}$ of each front leg 34 opposite the connection between the front leg 34 and the center section $\mathbf{3 8}$ is configured to contact the ground is preferably rounded. In an alternative embodiment, the distal end 40 of the front leg 34 is capped. A wheel 30 is preferably attached to the distal end $\mathbf{4 2}$ of each rear leg 36 opposite the connection between the rear leg 36 and the center section 38. The wheels $\mathbf{3 0}$ allow the $\log$ splitter 10 to be easily transferred from one location to another by way of rolling the apparatus on the wheels $\mathbf{3 0}$. In an alternative embodiment, a wheel is attached to the ends of both legs of the side members, thereby allowing the user to roll the $\log$ splitter along the ground without lifting either end.

As the front legs 34 extend downward from the center section 38, the front legs 34 also extend outward away from the support member 16, as illustrated in FIG. 4. As illustrated in FIG. 5, the rear legs 36 likewise extend in an outward direction away from the support member 16 as the rear legs 36 extend downward from the center sections 38. Because the ends 40, 42 of the legs 34, 36 extend in an outward direction away from the support member 16, the legs 34,36 provide a more stable base upon which the $\log$ splitter 10 rests by having a more stable footprint in the lateral direction. The distance between the ends 40 of the front legs 34 is between about seven and twelve inches ( $7-12^{\prime \prime}$ ), and preferably is about eight and one-quarter inches
$\left(8^{1 / 4} 4^{\prime \prime}\right)$. The distance between the ends $\mathbf{4 2}$ of the rear legs $\mathbf{3 6}$ is between about seven and twelve inches (7-12"), and preferably is about eight inches (8"). The footprint of the log splitter 10 provides an advantage over conventional $\log$ splitters by making the $\log$ splitter more stable.

The front legs 34 are connected by a first cross tie 41 located below the support member 16, and the rear legs 36 are connected by a second cross tie 43 also located below the support member 16. These cross ties 41, 43 provide additional structural support to the base $\mathbf{1 8}$ by preventing outward deflection of the legs 34, 36 away from support member 16 when a large $\log$ is placed upon the log splitter 10. The cross ties 41,43 ensure that the base 18 remains stable so as to prevent the $\log$ splitter from tipping.

The support member 16, as shown in FIG. 1, provides a structural framework to the $\log$ splitter 10, and further provides a structure to which other components of the log splitter are connected. In one embodiment, the support member 16 is formed of a substantially rectangular tube having a square cross-section. The top surface 44 of the support member 16 includes an inward-directed indentation 46 along the entire length of the support member. This indentation 46 is configured to receive a $\log$ placed on the top surface 44 of the support member 16 and between the center section 38 of the opposing side members 26, 28. The center sections $\mathbf{3 8}$ of the opposing side members 26, 28 are preferably spaced apart by about 6 inches ( $6^{\prime \prime}$ ). However, it should be understood by one skilled in the art that the center sections $\mathbf{3 8}$ of the opposing side members 26, 28 can be any distance sufficient to receive a $\log$ and provide a stable base for the $\log$ splitter 10 . The top surface 44 is preferably disposed below the upper edge of the center sections 38 , such that the shape of the indentation 46 of the top surface 44 and the center sections 38 of the opposing side members 26, 28 form a generally rounded seat, or recess, to support a $\log$ on the $\log$ splitter 10 .

The side members 26, 28 are spaced apart from the support member 16, as shown in FIG. 1, thereby allowing a greater lateral support for a log. The side members 26, 28 and the support member 16 form a seat in which a $\log$ can be placed. It should be understood by one skilled in the art that a $\log$ placed on the spaced apart side members 26, 28 may have a diameter or a particular shape such that the $\log$ does not contact the top surface 44 of the support member 16, yet the top surface 44 of the support member 16 remains configured to receive and support a log. Because the side members 26, 28 and the top surface 44 of the support member 16 are configured to receive the log, the spacedapart side members 26, 28 provide for more lateral support such that more surface area of the log is disposed on the $\log$ splitter 10. The increased lateral support, in combination with the more stable footprint of the base 18, provides the $\log$ splitter 10 with a stable support structure upon which a $\log$ is placed.
The side members 26, 28 are configured to provide the $\log$ splitter 10 with a stable base as well as provide structural support for receiving a log. While the legs $\mathbf{3 4}, \mathbf{3 6}$ contact the ground and maintain the operating mechanisms of the $\log$ splitter 10 a safe distance above the ground, the center section 38 of the side members 26, 28 receive the weight of a $\log$ and transmit the weight through the legs 34, 36 to the ground. Conventional log splitters have legs that are directly attached to the structural framework of the apparatus, and separate guide members are attached to the structural framework in order to receive the weight of the log. Another advantage of the present invention is that the one-piece side members 36, 38 provide both a stable base as well as a
structural support for receiving and transmitting the loads of a $\log$. A further advantage of the present invention over conventional $\log$ splitting devices is that the one-piece structure of the side members $\mathbf{3 6}, \mathbf{3 8}$ requires fewer parts and less tooling than conventional $\log$ splitters, thereby reducing the costs associated with manufacturing a $\log$ splitter.

The splitting wedge $\mathbf{1 4}$ is operably connected to the top surface 44 of the support member 16, as illustrated in FIG. 1. The splitting wedge $\mathbf{1 4}$ is a wedge-shaped member having a vertical edge 48 directed toward the longitudinal direction of the $\log$ splitter 10 such that the vertical edge $\mathbf{4 8}$ is configured to contact and cut a $\log$. The splitting wedge 14 has a pair of side pieces 50 that extend from the vertical edge 48 and form an angle therebetween. The angle formed between the side pieces 50 can vary depending upon the application of the $\log$ splitter $\mathbf{1 0}$. The preferred angle formed by the side pieces $\mathbf{5 0}$ is between about thirty and fifty-five degrees $\left(30-55^{\circ}\right)$. Splitting wedges are not new to the art, and as such, it should be understood by one skilled in the art that any splitting wedge sufficient to cut wood can be used.

In the preferred embodiment, the splitting wedge 14 is rigidly attached to the support member 16 such that the movement of the guide assembly 20 causes the log to move toward the splitting wedge 14 to be cut. However, it should be understood by one skilled in the art that the present $\log$ splitter can be configured such that the guide assembly remains stationary as the splitting wedge is caused to be actuated in order to cut the log. The splitting wedge 14 is preferably welded to the top surface 44 of the support member 16, but any other means of attaching the splitting wedge to the support member sufficient to withstand the loads during the operation of the $\log$ splitter can be used.

The guide assembly 20 includes a c-bracket 52, a contact member 54, a pair of brackets $\mathbf{5 6}$, and a pair of rods $\mathbf{5 8}$, as illustrated in FIGS. 1-4. The guide assembly 20 is configured to actuate the contact member 54 toward and away from the stationary splitting wedge 14 in a translational manner by way of reciprocal movement relative to the longitudinal direction of the support member 16. In an alternative embodiment, the guide assembly includes a splitting wedge that is configured to be actuated toward a stationary contact member. In a further alternative embodiment, the guide assembly includes a splitting wedge that is configured to be actuated toward a stationary splitting wedge such that both ends of a $\log$ are cut by a splitting wedge. The contact member 54 has a pair of brackets 56 attached to opposing sides thereof. The brackets 56 extend along the vertical sides of the contact member 54 and around the bottom of the support member 16 where adjacent edges of the brackets 56 are attached to each other. The c-bracket 52 is located adjacent to the forward end $\mathbf{1 1}$ of the $\log$ splitter 10, and operably connected to the brackets 56 by way of a pair of rods 58 . The rods $\mathbf{5 8}$ are disposed between the side members 26, 28 and the support member 16 such that as the contact member 54 is actuated in the reciprocal manner, the brackets 56 remain between the side members 26, 28 and the support member 16.

The handle $\mathbf{1 2}$ is connected to the c-bracket $\mathbf{5 2}$, as illustrated in FIGS. 1 and 4. The handle 12 is configured to allow the user to grasp the handle 12 and lift the forward end 11 of the $\log$ splitter 10 away from the ground. The handle 12 and c-bracket 52 are configured to actuate as the contact member 54 translates toward the splitting wedge 14 . However, it should be understood by one skilled in the art that the handle can be configured to be attached directly to the support member. In an alternative embodiment, a plurality of
handles extend from a proximal point connected to the support member such that the handles are configured in a wheelbarrow-type manner.

The control assembly 22 is configured to actuate the guide assembly 20 in order to cut a log. The control assembly 22 includes a motor $\mathbf{6 0}$ operatively connected to at least one cylinder (not shown). The cylinder is disposed within the support member 16 and is configured to extend and retract a push arm, thereby actuating the contact member 54 toward and away from the splitting wedge 14 . In the preferred embodiment, the motor 60 and cylinder form a hydraulic system. In an alternative embodiment, the cylinder is airoperated by the motor. It should be understood by one skilled in the art that any other actuating means sufficient to actuate the guide assembly so as to cut a $\log$ can be used. In the preferred embodiment, the cylinder is connected to the c-bracket 52 located at the forward end 11 of the $\log$ splitter 10. The operative stroke of the cylinder is sufficient to allow the contact member $\mathbf{5 4}$ to be actuated between a first operative position and a second operative position. When in the first operative position, the contact member $\mathbf{5 4}$ is located adjacent to the rearward end 13 of the $\log$ splitter 10 , and when in the second operative position, the contact member 54 is in contact with the vertical edge 48 of the splitting wedge 14. The motor 60 is operated by way of a moveable switch 24, as illustrated in FIG. 5, which is manually controlled by a user.

In operation, the user moves the switch 24 from a first position to a second position, thereby causing the motor 60 to operate the cylinder such that the guide assembly 20 moves in a manner in which the c-bracket 52 extends away from the support member 16 and the contact member 54 translates from the first operative position toward the splitting wedge 14 by way of the rods 58 that connect the c-bracket $\mathbf{5 2}$ and the brackets $\mathbf{5 6}$ to the contact member 54 . The cylinder is operable such that the contact member 54 can assume any point between the first operative position and the second operative position. Once the $\log$ is split, the user moves the switch 24 to a third position, thereby causing the motor to operate the cylinder such that the guide assembly 20 moves in a manner in which the contact member 54 translates in a direction away from the splitting wedge 14. When the switch is returned to the first position, the motor is stopped, thereby preventing the cylinder from operating.
In an alternative embodiment, the guide assembly is configured to be spring-loaded such that the contact member begins at a location adjacent to the splitting wedge, and the operator moves the switch to cause the cylinder to actuate the contact member away from the splitting wedge. Once there is sufficient space, a $\log$ is placed between the contact member and the splitting wedge. The operator then directs the cylinder to actuate the contact member to the furthest point from the splitting wedge. The operator then pushes a button (not shown) that causes the contact member to rapidly translate toward the splitting wedge, thereby cutting the $\log$.

In a further alternative embodiment, the cylinder is configured to actuate a spring-loaded splitting wedge away from a stationary contact member in the same manner as the spring-loaded contact member previously discussed. When the operator pushes the button, the splitting wedge rapidly translates toward the contact member, thereby cutting the $\log$.

While preferred embodiments of the invention have been described, it should be understood by one skilled in the art that the invention is not so limited and modifications may be made without departing from the invention. The scope of the
invention is defined by the appended claims, and all devices that come within the meaning of the claims, either literally or by equivalence, are intended to be embraced therein.

The invention claimed is:

1. A $\log$ splitter comprising:
a support member having a top surface, two opposing side surfaces extending from the top surface, a front portion and a rear portion, wherein the support member is adapted to receive a $\log$;
a first leg assembly provided on a first side surface and including a first front leg, a first rear leg, and a center section extending from the front portion toward the rear portion and connecting the first front leg and the first rear leg;
a second leg assembly provided on a second side surface and including a second front leg, a second rear leg, and a center section extending from the front portion toward the rear portion and connecting the second front leg and the second rear leg, wherein the center section of the first leg assembly and the center section of the second leg assembly lie in substantially the same horizontal plane, which is disposed above the top surface of the support member;
a splitting wedge operably connected to said support member;
a contact member configured to translate in a reciprocal manner adjacent to said support member in order to move said $\log$; and
a control assembly, wherein said control assembly is configured to actuate said contact member in said reciprocal manner.
2. The $\log$ splitter of claim $\mathbf{1}$, wherein said center section of each of first and second leg assembly is disposed adjacent to opposing sides of said support member.
3. The log splitter of claim 2, wherein said front leg of each of the first and second leg assembly extends downward and away from said support member.
4. The $\log$ splitter of claim 3 , wherein said front legs are connected by a first cross tie.
5. The $\log$ splitter of claim 1 , wherein said rear leg of each of the first and second leg assembly extends downward and away from said support member.
6. The $\log$ splitter of claim 5 , wherein a wheel is rotatably connected to an end of said rear leg of each of the first and second leg assembly.
7. The log splitter of claim 1 further comprising a handle operatively connected to said support member.
8. The $\log$ splitter of claim 1 , wherein said control assembly includes a motor and at least one cylinder.
9. The $\log$ splitter of claim 8 , wherein said cylinder is air operated.
10. The $\log$ splitter of claim 8 , wherein said cylinder is hydraulically operated.
11. A log splitter comprising:
a splitting wedge operably connected to a support member, wherein said support member includes a top surface, two opposing side surfaces extending from the top surface, a front portion and a rear portion;
a first leg assembly provided on a first side surface and including a first front leg, a first rear leg, and a center section extending from the front portion toward the rear portion and connecting the first front leg and the first rear leg;
a second leg assembly provided on a second side surface and including a second front leg, a second rear leg, and a center section extending from the front portion toward the rear portion and connecting the second front leg and the second rear leg, wherein the center section of the first leg assembly and the center section of the second leg assembly lie in substantially the same horizontal plane, which is disposed above the top surface of the support member; and
a guide assembly configured to translate toward and away from said splitting wedge, wherein one of the support member or the first and second leg assembly support a $\log$.
12. The $\log$ splitter of claim 11, wherein a wheel is attached to an end of each of the first and second rear leg.
13. The $\log$ splitter of claim 12, wherein a handle is operatively connected to said support member, and said handle is configured to allow a user to lift at least one end of said support member.
14. The $\log$ splitter of claim 11, wherein said guide assembly comprises a contact member, a pair of brackets, a pair of rods, and a c-bracket, wherein said pair of brackets are connected to opposing sides of said contact member and said pair of brackets being connected to each other, and said rods extending substantially parallel to said support member.
15. The $\log$ splitter of claim 14 , wherein said c-bracket is operably connected to a cylinder having an operative stroke such that said contact member is movable between a first operative position and a second operative position.
